

PRODUCT INFORMATION PACKET



Model No: LM80174

Catalog No: LM80174

Fire Pump Motor, 350 & 300 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447TS Frame, DP



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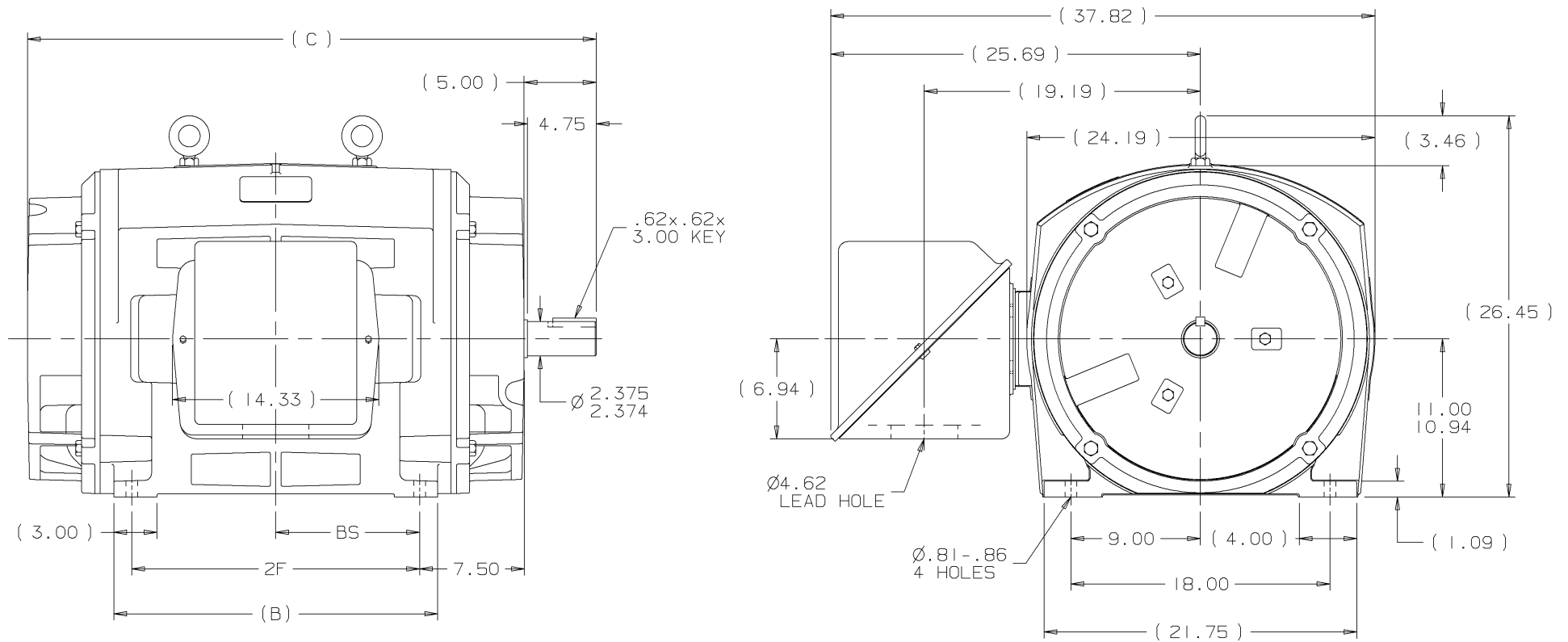


Nameplate Specifications

Phase	3	Output HP	350 & 300 Hp
Output KW	260.0 & 224.0 kW	Voltage	460 & 380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	447TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	405 & 418 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.015 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	39.50 in
Frame Length	24.39 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514570LN-2438	Connection Drawing	A-EE7300BH-LN



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

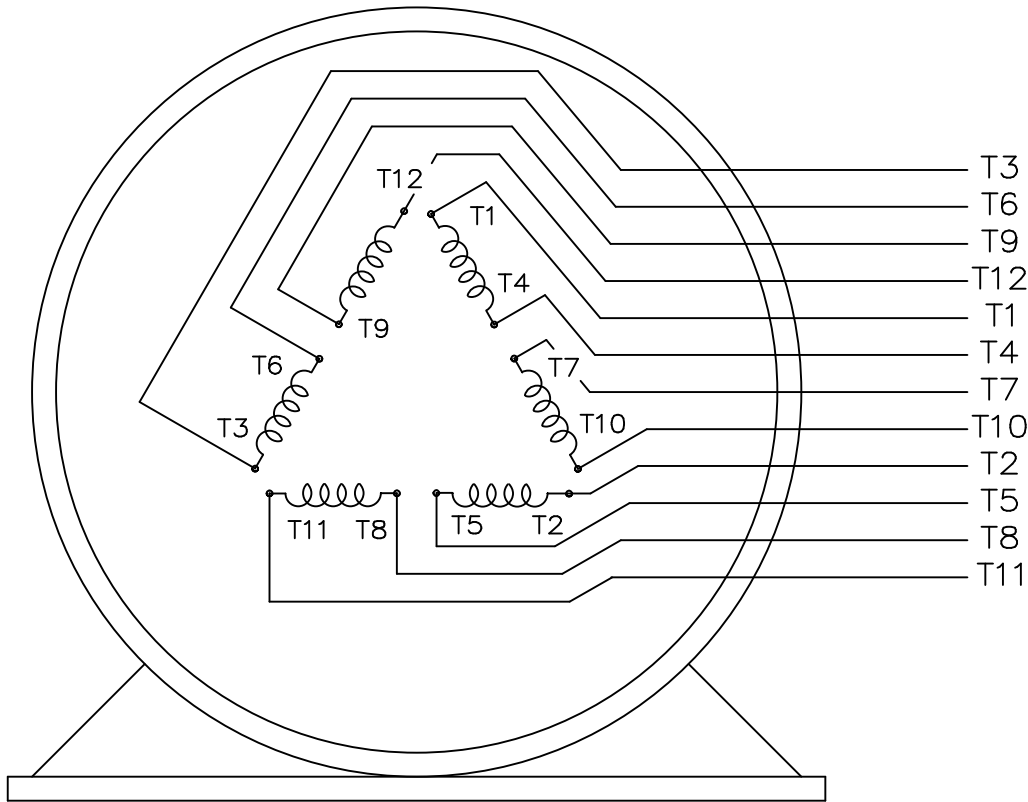
(B-SS514335)

DASH	FRAME	B	C	2F	BS	REV	DATE	CHANGE	NAME	PART NAME	OUTLINE	DRWG NO
2438	447TS	22.50	39.50	20.00	10.00	I	05-16-2001	NEW DRAWING	MU37352	KL	447/9TS FR. - DR.PR.	B-SS514570LN
2938	449TS	27.50	44.50	25.00	12.50							



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.03 XXX±.005 XXXX±.0005 ANGLES± 7'30"			
✓	MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED	DRAWN BY	KL
	FINISH	CHKD BY	DJK
	MATERIAL	APPD BY	JES

PURCHASED | L | DISTRIBUTION WA - LB - WP - LN - BY | CADD FILE NO. | SS514570LN



T12(W4) _____
 T1(U1) _____
 T6(W2) _____
 T7(U3) _____
 _____ LINE 1

 T2(V1) _____
 T4(U2) _____
 T8(V3) _____
 T10(U4) _____
 _____ LINE 2

 T3(W1) _____
 T5(V2) _____
 T9(W3) _____
 T11(V4) _____
 _____ LINE 3

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN KL 04-23-2002			
				DEC.	INCHES		CHK DJK 04-24-2002			
				.X	±.1		APPD EAB 04-24-2002			
				.XX	±.01		SCALE 1=1			
2	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD – SINGLE VOLTAGE			REF	
1	NEW DRAWING MU41562	KL 04-12-02		.XXXX	±.0005	MAT'L.			FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH			PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP		CAD FILE ee7300bh_ln		SIZE	DRAWING NO.	PAGE OF	REV.
			DIST WA-SB				A	EE7300BH-LN		2



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN

CAT #: LM80174

OUTLINE: B-SS514570LN-2438

WINDING: T447445

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
350	261	1800	1780	447TS	DP	TDN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	405&418	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.4	GTD EFF		ELECT. TYPE	
F.L. PF	86.0	3/4 LD PF	83.0	1/2 LD PF	78.0	94.5		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
1,032 LB-FT	2,100	1,375 LB-FT 133%	2,500 LB-FT 242%	70	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
82 dBA	91 dBA		53.0 LB-FT²	1200 LB-FT²	15 SEC.	1	1950 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314 6314						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.012	0.007	0.096	0.092	2.441	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 8/31/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: NONE	

Data Sheet

Date: 8/31/2018

LM80174



Data @ 460 V

Motor Load Data

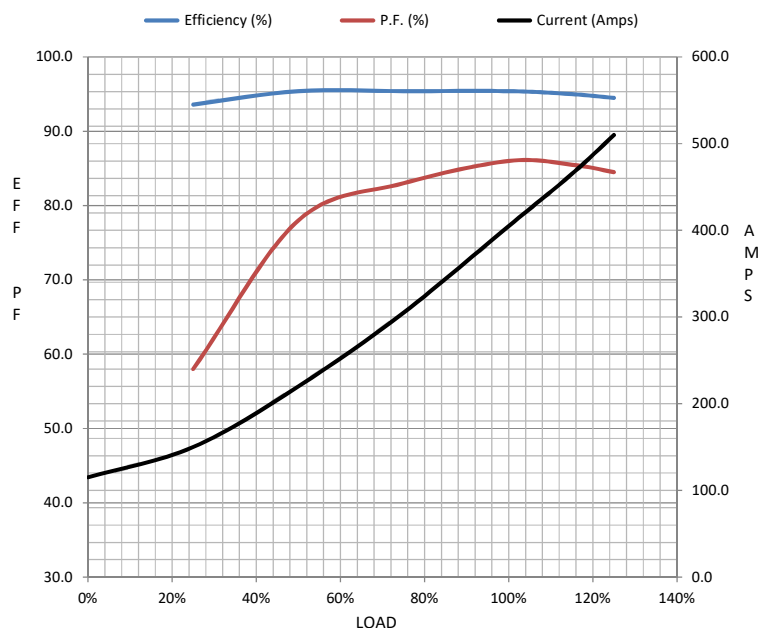
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	115	150	220	305	405	465	510	2,100	
Torque (ft-lb)	0.00	256	513	772	1,032	1,190	1,295	1,375	
RPM	1800	1795	1790	1785	1780	1,778	1775	0	
Efficiency (%)		93.6	95.4	95.4	95.4	95.0	94.5		
P.F. (%)	4.0	58.0	78.0	83.0	86.0	85.5	84.5	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1780	1800
Current (Amps)	2,100	1,850	1,550	405	115
Torque (ft-lb)	1,375	1,150	2,500	1,032	0.00

Information Block

HP	350.0			
Sync. RPM	1800			
Frame	447			
Enclosure	DP			
Construction	TDN			
Voltage	460#380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	53.0		Lb-Ft²	
Ref Wdg	T447445	NONE		
Sound Pressure @ 1M	82		dBA	
VFD Rating	NONE			
Outline Dwg	B-SS514570LN-2438			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0120	0.0070	0.0960	0.0920	2.4410



Speed - Torque Curve

